

SB1620FCT - SB16100FCT

16A DUAL SCHOTTKY BARRIER RECTIFIER

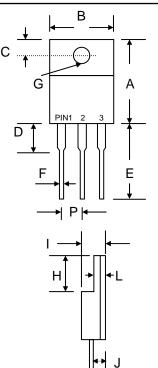


Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

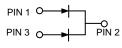
Mechanical Data

- Case: ITO-220, Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



Κ

ITO-220					
Dim	Min	Max			
Α	14.60	15.40			
В	9.70	10.30			
С	2.55	2.85			
D	_	4.16			
Е	13.00	13.80			
F	0.50	0.75			
G	3.00 Ø	3.50 Ø			
Н	6.30	6.90			
I	4.20	4.80			
J	2.50	2.90			
К	0.50	0.75			
L	2.60	3.30			
Р	2.29	2.79			
All Dimensions in mm					



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.										
Characteristic	Symbol	SB 1620FCT	SB 1630FCT	SB 1640FCT	SB 1645FCT	SB 1650FCT	SB 1660FCT	SB 1680FCT	SB 16100FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output CurrentTotal Device@Tc = 100°CPer Diode	lo	16 8.0						А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	150				A				
	Vfm	0.55 0.75 0.85 0.50 0.65 0.75					V			
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm	0.5 20				mA				
Typical Junction Capacitance (Note 1)	CJ	500 350						pF		
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	62 4.0				°C/W				
RMS Isolation Voltage, t = 1 min	Viso	1500							V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150						°C		

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

SB1620FCT – SB16100FCT



1680FCT - 16100FCT

0.8

1.0

140

0.4

60

80

100

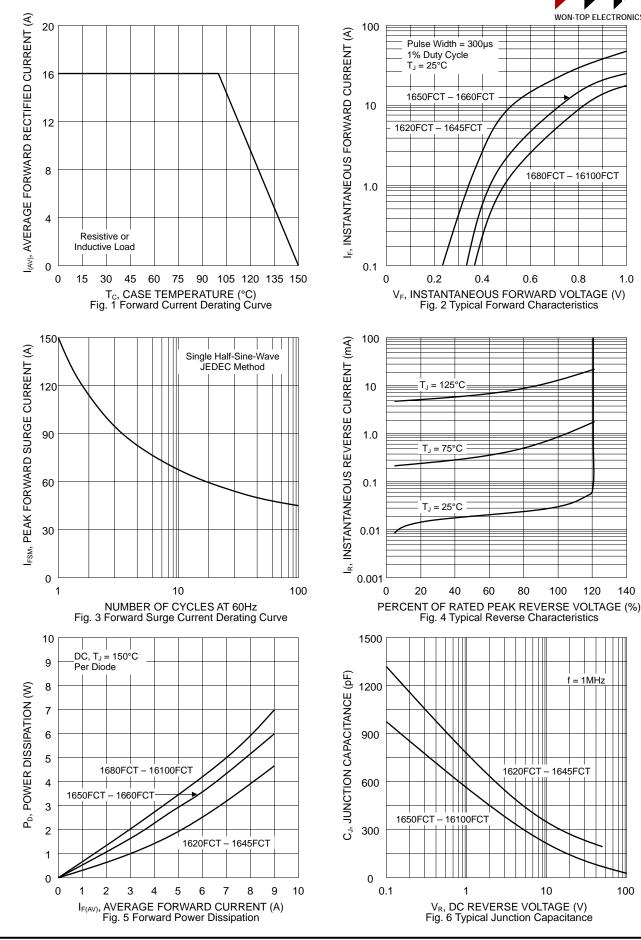
1620FCT - 1645FCT

10

120

= 1 MHz

0.6



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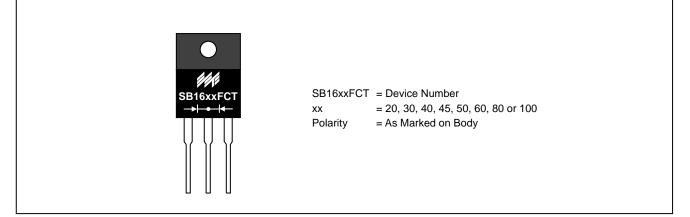
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100

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MARKING INFORMATION



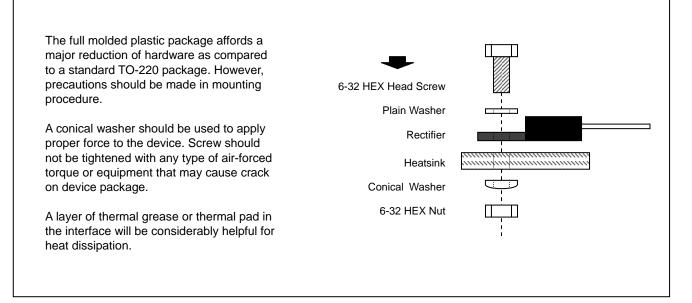
PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT





Product No.	Package Type	Shipping Quantity
SB1620FCT	ITO-220	50 Units/Tube
SB1630FCT	ITO-220	50 Units/Tube
SB1640FCT	ITO-220	50 Units/Tube
SB1645FCT	ITO-220	50 Units/Tube
SB1650FCT	ITO-220	50 Units/Tube
SB1660FCT	ITO-220	50 Units/Tube
SB1680FCT	ITO-220	50 Units/Tube
SB16100FCT	ITO-220	50 Units/Tube

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB1620FCT-LF.

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